

ABSTRACT OF THE DISCLOSURE

An electric synchronous machine with improved torque characteristic has a stator and a rotor, wherein the stator includes a winding, preferably a three-phase AC winding, with an average coil width τ_{sp} . The rotor is provided with permanent magnets and has a pole pair number of $2p$ with a pole pitch width τ_p , wherein the pitch ratio τ_{sp}/τ_p is ≥ 2.5 .

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